

AMENDMENTS TO THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims in the application.

Please amend claims 1, 7 through 12 as follows:

Listing of Claims:

1 1. (Currently Amended) A method for performing common call processing
2 management using a common software platform,
3 with the common software platform comprising:
4 ~~including~~ horizontal components for providing common functions required
5 in all communication systems, and
6 vertical components for providing specific functions on the basis of
7 communication systems,
8 and with the method comprising the steps of:
9 allowing a common agent to perform corresponding operations including an
10 operation of gathering Internet information on the basis of a predetermined
11 schedule irrespective of a manager's intervention;
12 allowing an operations administration and maintenance module to
13 administer and maintain a network in which the corresponding operations are
14 performed on the Internet; and

15 allowing a common call processor to manage a subscriber in response to a
16 call signal provided from a physical component receiving a subscriber signal and
17 set up a voice path on the basis of the call signal where the subscriber signal can be
18 transmitted through the voice path.

1 2. (Original) The method as set forth in claim 1, wherein the common call
2 processor comprises:

3 a call processing management application program interface for providing a
4 switching interface, subscriber interfaces and an interface between call processing
5 modules;

6 an event decoding module for decoding a corresponding command and extracting
7 physical termination information and a relation index;

8 a component specific call processing module for organizing components for
9 performing corresponding functions based on the switching interface and the subscriber
10 interfaces and interfacing with a lower-order module;

11 a common call signal management module for processing and routing a signal
12 generated from the switching interface and a control signal to a corresponding module in
13 response to a request from a subscriber interface;

14 a common connection management module for controlling a connection for setting
15 up a voice path irrespective of hardware and an application program; and

16 a call resource management module for managing system resources associated

17 with call processing.

1 3. (Original) The method as set forth in claim 2, wherein the component specific
2 call processing module comprises a vertical component having at least one of a media
3 gateway control protocol interface, a V5.2 interface and a GR303 interface being voice
4 call signal interfaces.

1 4. (Original) The method as set forth in claim 3, wherein the physical component
2 comprises at least one of a switch module, a tone generator and a physical port.

1 5. (Original) The method as set forth in claim 4, wherein the common call
2 processor performs specific call processing according to kinds of vertical and physical
3 components on the basis of the extracted physical termination information and relation
4 index, allocates a system's switching resources, decides path information and generates a
5 control command for a physical switch.

1 6. (Original) The method as set forth in claim 5, wherein the path information
2 decided by the common call processor comprises address information associated with at
3 least one of a card location and a destination by switching.

1 7. (Currently Amended) A computer readable medium comprising stored thereon

2 machine readable data structures ~~An apparatus~~ for performing common call processing
3 management using a common software platform,

4 with the common software platform comprising:

5 including horizontal components for providing common functions required
6 in all communication systems, and

7 vertical components for providing specific functions on the basis of
8 communication systems,

9 and with the data structures comprising:

10 a common agent for performing corresponding operations including an
11 operation of gathering Internet information on the basis of a predetermined
12 schedule irrespective of a manager's intervention;

13 an operations administration and maintenance module for administering
14 and maintaining a network in which the corresponding operations are performed
15 on the Internet; and

16 a common call processor for managing a subscriber in response to a call
17 signal provided from a physical component receiving a subscriber signal and
18 setting up a voice path on the basis of the call signal such that the subscriber signal
19 can be transmitted through the voice path.

1 8. (Currently Amended) The ~~apparatus~~ computer readable medium as set forth in
2 claim 7, wherein the common call processor comprises:

3 a call processing management application program interface for providing a
4 switching interface, subscriber interfaces and an interface between call processing
5 modules;

6 an event decoding module for decoding a corresponding command and extracting
7 physical termination information and a relation index;

8 a component specific call processing module for organizing components for
9 performing corresponding functions based on the switching interface and the subscriber
10 interfaces and interfacing with a lower-order module;

11 a common call signal management module for processing and routing a signal
12 generated from the switching interface and a control signal to a corresponding module in
13 response to a request from a subscriber interface;

14 a common connection management module for controlling a connection for setting
15 up a voice path irrespective of hardware and an application program; and

16 a call resource management module for managing system resources associated
17 with call processing.

1 9. (Currently Amended) The ~~apparatus~~ computer readable medium as set forth in
2 claim 8, wherein the component specific call processing module comprises a vertical
3 component having at least one of an media gateway control protocol interface, a V5.2
4 interface and a GR303 interface being voice call signal interfaces.

1 10. (Currently Amended) The ~~apparatus~~ computer readable medium as set forth
2 in claim 9, wherein the physical component comprises at least one of a switch module, a
3 tone generator and a physical port.

1 11. (Currently Amended) The ~~apparatus~~ computer readable medium as set forth
2 in claim 10, wherein the common call processor performs specific call processing
3 according to kinds of vertical and physical components on the basis of the extracted
4 physical termination information and relation index, allocates a system's switching
5 resources, decides path information and generates a control command for a physical
6 switch.

1 12. (Currently Amended) The ~~apparatus~~ computer readable medium as set forth
2 in claim 11, wherein the path information decided by the common call processor
3 comprises address information associated with at least one of a card location and a
4 destination by switching.